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System and Method for Programmable Illumination

Pattern Generation

MSK 2/15/06
The present application is a CIP of application serial number
09/171,155 now U.S. Patent 6,251,691.
Field of the Invention:

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The present invention generally relates to the field of materials science and
analytical chemistry.

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The present invention specifically relates to the realization of a complete,
functionally integrated system for the implementation of biochemical analysis in a planar,
miniaturized format on the surface of a conductive and/or photoconductive substrate, with
applications in pharmaceutical and agricultural drug discovery and in in-vitro or genomic
diagnostics. In addition, the method and apparatus of the present invention may be used to
create material surfaces exhibiting desirable topographical relief and chemical functionality,
and to fabricate surface-mounted optical elements such as lens arrays.

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